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APPLICATION NO	. FIL	LING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.		
10/736,934	0/736,934 12/16/2003		Hisashi Yamauchi	NEC 15.938A	5519		
26304	7590	10/20/2004		EXAM	EXAMINER		
		ZAVIS ROSENM	LAMARR	LAMARRE, GUY J			
	SON AVEN LK, NY 10			. ART UNIT	PAPER NUMBER		
				2133			
	•			DATE MAILED: 10/20/2004			

Please find below and/or attached an Office communication concerning this application or proceeding.

•	Appli	cation No.	Applicant(s)	10		
Office Andies O		36,934	YAMAUCHI	V		
Office Action Summa	Exam	niner	Art Unit			
		J. Lamarre, P.E.	2133			
The MAILING DATE of this co Period for Reply	mmunication appears o	n the cover sheet with the	correspondence addre	9SS		
A SHORTENED STATUTORY PER THE MAILING DATE OF THIS COM - Extensions of time may be available under the p after SIX (6) MONTHS from the mailing date of t - If the period for reply specified above is less tha - If NO period for reply is specified above, the ma: - Failure to reply within the set or extended period Any reply received by the Office later than three earned patent term adjustment. See 37 CFR 1.	MMUNICATION. rovisions of 37 CFR 1.136(a). In his communication. n thirty (30) days, a reply within th dimum statutory period will apply a for reply will, by statute, cause th months after the mailing date of the	no event, however, may a reply be ti e statutory minimum of thirty (30) da and will expire SIX (6) MONTHS fron e application to become ABANDONI	mely filed ys will be considered timely. n the mailing date of this comm ED (35 U.S.C. § 133).	nunication.		
Status						
1) Responsive to communication	n(s) filed on 30 Decemb	er 2003				
2a)☐ This action is FINAL .	2b)⊠ This action					
<u>'</u>	•		osecution as to the m	nerits is		
	Since this application is in condition for allowance except for formal matters, prosecution as to the ments is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.					
Disposition of Claims		*				
4) ⊠ Claim(s) <u>1-4</u> is/are pending in 4a) Of the above claim(s) 5) □ Claim(s) is/are allowed 6) ⊠ Claim(s) <u>1-4</u> is/are rejected. 7) □ Claim(s) is/are objecte 8) □ Claim(s) are subject to	is/are withdrawn from					
Application Papers						
9)☐ The specification is objected to 10)☒ The drawing(s) filed on 30 Dec Applicant may not request that a Replacement drawing sheet(s) in 11)☐ The oath or declaration is objected to	cember 2003 is/are: a)[one objection to the drawing including the correction is re	g(s) be held in abeyance. See equired if the drawing(s) is of	ee 37 CFR 1.85(a). bjected to. See 37 CFR	1.121(d).		
Priority under 35 U.S.C. § 119						
12) Acknowledgment is made of a a) All b) Some * c) Non 1. Certified copies of the p 2. Certified copies of the p 3. Copies of the certified of application from the Into * See the attached detailed Office	e of: priority documents have priority documents have copies of the priority doc ernational Bureau (PCT	been received. been received in Applica cuments have been receiv Rule 17.2(a)).	tion No. <u>09/265,346</u> . red in this National St	age		
Attachment(s)						
1) Notice of References Cited (PTO-892)		4) Interview Summar	y (PTO-413)			
2) Notice of Draftsperson's Patent Drawing R		Paper No(s)/Mail D		52)		
Information Disclosure Statement(s) (PTO- Paper No(s)/Mail Date <u>16 Dec. 2003</u> .	1449 OF P+O/SB/08)	6) Other:	atent Application (F10-1	J2)		

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DETAILED ACTION

Applicant's pre-amendment of 30 Dec. 2003 and IDS of 16 Dec. 2003 have been entered.
 The Examiner has considered the IDS.

0.1 Pursuant to 35 USC 131, Claims 1-4 are presented for examination.

Reassignment Affecting Application Location

1. The Art Unit location of your application in the USPTO has changed. To aid in correlating any papers for this application, all further correspondence regarding this application should be directed to Art Unit 2133.

Claim Rejections - 35 USC ' 103

- 2. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 2.1 Claims 1-4 are rejected under 35 U.S.C. 103(a) as being unpatentable over Applicants' Admitted prior art (hereinafter Admitted prior art) in view of Schilling et al. (ELECTRONIC CIRCUITS: Discrete and Integrated, 1979; pages 560-615).

As per Claims 1-2, 4 Admitted prior art substantially discloses the procedure for the claimed method of generating test patterns, comprising (a) counting or identifying means (page 4 line 7); (b) checking noise value means (page 4 line 16); (c) selecting means to make process fall within allowable noise range (page 4 line 20); (d) changing input pattern based on step (c) (page 4 line 21). {See Admitted prior art, Fig.19, and page 1 line 8 – page 4 line 17, in passim, wherein apparatus and method are described.} Not specifically described in detail in Admitted prior art is the step whereby processing is performed based on circuit component noise margin and fan-out/fan-in requirement adjustments.

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However such noise margin and fan-out design requirement approach is well known in electronics communications devices wherein such design requirements are taken into consideration so as to allow for or permit adequate component bias/operational voltage swings. For example, Schilling et al., in an analogous art, discloses a synopsis on "Logic Gates" wherein such techniques are described. {See Schilling et al., Id., Figs 12.1-3 and 4, pages 564-565.}

Therefore, it would have been obvious to a person having ordinary skill in the art at the time the invention was made to modify the procedure of the Admitted prior art by including therein a noise margin and fan-out design method as taught by Schilling et al., because such modification would provide the procedure disclosed in the Admitted prior art with a technique whereby "the upper limit on the fan-out is determined by the tolerable values of voltages and currents," thus allowing the circuit designer to select electrical component parameters accordingly. {See Schilling et al., page 565, penultimate para.}

As per Claim 3, Schilling et al. discloses the procedure for the claimed method of claim 1 further comprising repeated counting means. {See Schilling et al., Figs. 12.1-3 and 4, wherein means is provided for selecting and counting.}

Drawings

3. The Drawings are objected to because Figure 19, referred to as conventional in the specification, has not been labeled as prior art. Appropriate correction is required.

Claim Rejections - 35 USC § 112 SECOND PARAGRAPH

4. The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

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4.1 As per Claim 1: there is a lack of antecedent basis in last limitation for "the input

pattern" for such had been previously defined.

4.2 As per Claim 4: the 1st process is missing, and thus there is a lack of antecedent basis for

such in the rest of said claim.

Response to Arguments

5.0 Applicants' arguments concurrently filed have been fully considered, but they are not

persuasive.

REMARKS

5.1 In response to Claims 1-4, Applicants, on page 5 para. 3, allege that "the present

invention relates to a method to generate the input pattern set in the scan cells as a test pattern

for the internal circuit of the LSI, the test pattern preventing a noise problem."

Examiner disagrees as such recitation is not incorporated into the claim language.

'Although the claims are interpreted in light of the specification, limitations from the

specification are not read into the claims. See In re Van Geuns, 988 F.2d 1181, 26 USPQ2d

1057 (Fed. Cir. 1993).'

Conclusion

5.2 The prior art made of record and not relied upon is considered pertinent to applicant's

disclosure.

5.3 Any response to this action should be mailed to:

Commissioner of Patents and Trademarks, Washington, D.C. 20231

or faxed to: (703) 872-9306 for all formal communications.

Hand-delivered responses should be brought to Crystal Park II, 2121 Crystal Drive,

Arlington, VA, Fourth Floor (Receptionist).

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Any inquiry concerning this communication or earlier communications from the examiner should be directed to Guy J. Lamarre, P.E., whose telephone number is (703) 305-0755. The examiner can normally be reached on Monday to Friday from 9:30 AM to 6:00 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Albert De Cady, can be reached at (703) 305-9595.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the Group receptionist whose telephone number is (703) 305-3900.

Information regarding the status of an application may also be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Guy J. Lamarre, P.E Primary Examiner 10/13/04